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SIMB-M02

Intel® Atom™ Mini-ITX with VGA/LVDS/HDMI, 6 COMs and LAN



Features

- Supports Intel® N2600 / D2550 processor
- Supports Intel NM10 chipset
- One 204-pin SO-DIMM up to 4 GB DDR3 1066 MHz SDRAM
- Realtek 8111E LAN
- Supports multiple dual display functions: VGA, HDMI, Single channel 18-bit LVDS
- 1 x PCle x 1, 1 x Full Size Mini-PCle, 1 x CFast (Optional)
- 6 COM (with power), 2 SATA II
- 7 USB 2.0, TPM 1.2 (Optional)

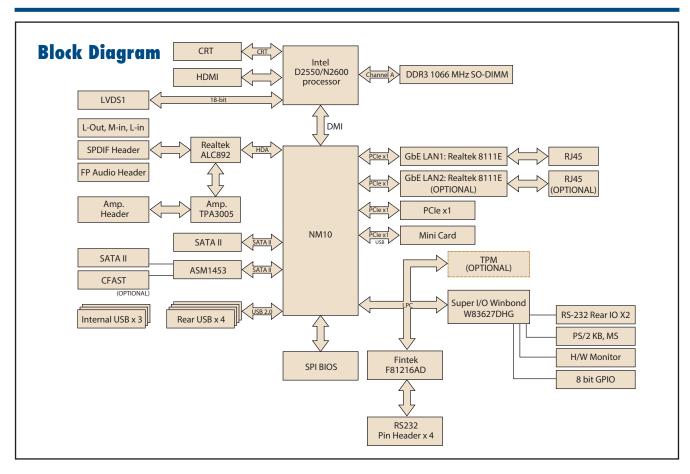






Specifications

	CPU	Intel Atom N2600	Intel Atom D2550
	Max. Speed	1.6 GHz (Dual core)	1.86 GHz (Dual core)
Processor System	L2 Cache	1 MB	1 MB
	Chipset	Intel NM10	
	BIOS	AMI 16 Mbit, SPI	
vnancian Clata	PCle	1	
expansion Slots	Full Size Mini-PCle	1	
	Technology	Single channel DDR3 1066 MHz	
/lemory	Max. Capacity	2 GB (for N2600), 4 GB (for D2550)	
	Socket	1 x 204-pin SO-DIMM (Non-ECC)	
	Controller	Embedded Gen3.5+ GFX Core, 400/640 MHz	render clock frequency for N2600/D2550
	VGA	Supports max. resolution 1920 x 1200	· · ·
Graphics	LVDS	Single channel 18-bit LVDS up to 1366 x 768	
·	HDMI	HDMI 1.3 supports max resolution 1920 x 120	00
	Dual Display	VGA + LVDS, VGA + HDMI, LVDS + HDMI	
	Interface	10/100/1000 Mbps	
thernet	Controller	Realtek 8111E LAN	
	Connector	RJ-45 x 1	
ATA	Max Data Transfer Rate	300 MB/s (SATA 2.0)	
SATA	Channel	2	
SD	Cfast	Optional (co-lay with SATA II, if it is used, only	y 1 SATA II can be used)
	VGA	1	
	HDMI	1	
	Ethernet	1	
lear I/O	USB	4 (USB 2.0)	
	Audio	3 (Line-out, Line-in, Mic-in)	
	Serial	2 (RS-232 with R1/5V/12V power)	
	PS/2	1 port (supports Y cable)	
	LVDS & Inverter	1	
	USB	3 (USB 2.0)	
nternal Connectors	Serial	4 (RS-232 with R1/5V/12V power)	
	SATA	2 (SATA 2.0)	
	GPI0	8-bit (4-bit DI and 4-bit DO)	
	Output	System reset	
Vatchdog Timer	Interval	Programmable 1~ 255 sec/min	
ecurity	TPM	Optional	
	Power Type		OC Jack / 1 x Internal 2x2-pin Power Connector
ower Requirements	Typical Power Consumption	Windows IDOL: 24.72 W (Intel N2600 1.6 GHz	
	Temperature	Operating	Non-Operating
Environment		0 ~ 50° C (32 ~ 122° F)	-20 ~ 70° C (-4 ~ 158° F)
Physical Characteristics	Dimensions	170 x 170 mm (6.69" x 6.69")	25 .5 5 \55 . ,



Ordering Information

P/N	CPU	Chipset	VGA	GbE	USB	СОМ	SATA
SIMB-M02-N2600A1E	N2600	NM10	1	1	7 (4 Rear, 3 Internal)	6 x RS-232 (2 Rear, 4 Internal)	2 SATA II
SIMB-M02-D2500A1E	D2550	NM10	1	1	7 (4 Rear, 3 Internal)	6 x RS-232 (2 Rear, 4 Internal)	2 SATA II

Note: Minimum order quantity is 10 pieces

Packing List

Description	Quantity
SATA cable kit (SATA/POWER)	1
I/O shield	1
CPU Cooler	1 (D2550 only)
CPU Heatsink	1 (N2600 only)
Startup manual	1 (per 10 units)
Driver CD	1 (per 10 units)

Embedded OS/API

OS/API	Part number	Description
XPE	2070011396	XPE WES2009 SIMB-M02
WES7E	2070011561	WES7E SIMB-M02
WEC7D	2070012004	WESTE SIME_MO2

I/O View



SIMB-M02-D2500A1E SIMB-M02-N2600A1E

Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700008461	USB cable with two ports, 30.5 cm
SIMB-0ADP-90W1E	Power Adapter 90W DC12V /7.5A
1702002600-01	Power Cord 3P 180cm, USA type (For power adapter SIMB-0ADP-90W1E)
1700018705	Power Cord 3P 180cm, Europe type (For power adapter SIMB-0ADP-90W1E)
1700018704	Power Cord 3P 180cm, UK type (For power adapter SIMB-0ADP-90W1E)
1700000237-01	Power Cord 3P 180cm, PSE type (For power adapter SIMB-0ADP-90W1E)
1700000596	Power Cord 3P 180cm, CCC type (For power adapter SIMB-0ADP-90W1E)
1700001714	Power Cord 3P 180cm, BSMI type (For power adapter SIMB-0ADP-90W1E)
1700019549	COM port cable with bracket, 40cm
1700021716-01	COM port cable w/o bracket, 10cm

Warning: It is highly recommended to purchase SIMB-0ADP-90W1E with the board, as its power PIN definition is customised to meet this board requirement.

Optional Chassis

Part Number	Description
AIMB-B2000-00YE	Mini-ITX chassis with optional DC Adaptor